CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-06/368b/CEMENT/2017-18 Date: 23.06.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of concrete drain at 1st Cross Bhoomika Layout (Kirloskar Layout 1st Main deadend) in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/W.O/127/2017-18 Dated: 21.06.2017
*** Sample ID**	:	Cement – Sample 1
Sample Received on	:	21.06.2017
Period of Testing	:	21.06.2017 to 23.06.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

AE-14

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Steel/2017-18 23.06.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of concrete drain at 1st Cross Bhoomika Layout (Kirloskar Layout 1st Main deadend) in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/W.O/127/2017-18 Dated: 21.06.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	23.06.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.25	O.K	O.K

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Civil-tech Consultants & Engineers

#23/14, 7th Cross, 3rd Stage, 4th Block,

Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-06/368b/Cube/2017-18 25.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drain at 1st Cross Bhoomika Layout (Kirloskar Layout 1st Main deadend) in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/W.O/127/2017-18 Dated: 21.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2017	25.07.2017	8.169	474.3	21.08
2	27.06.2017	25.07.2017	8.265	496.6	22.07
3	27.06.2017	25.07.2017	8.390	512.2	22.76

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-06/368b/Cube/2017-18 27.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drain at 1st Cross Bhoomika Layout (Kirloskar Layout 1st Main deadend) in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/W.O/127/2017-18 Dated: 21.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2017	27.07.2017	8.253	515.3	22.90
2	29.06.2017	27.07.2017	8.362	526.9	23.42
3	29.06.2017	27.07.2017	8.415	545.6	24.25

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-06/368b/Pre Slab/2017-18 06.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of concrete drain at 1st Cross Bhoomika Layout (Kirloskar Layout 1st Main deadend) in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/W.O/127/2017-18 Dated: 21.06.2017
* Sample ID	:	Precast slab(100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	03.07.2017
Date of Testing	:	06.07.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	30.25	15.41	16.64	17.43	21.79
2	50.00	80.00	0.399	2540.11	1.60	0.957	33.90	17.27	18.65	17.84	22.30
3	50.00	81.00	0.405	2546.48	1.62	0.959	33.65	17.14	18.51	17.75	22.19

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